

Schools Set Roundup Day

Each spring the schools of the Torrance Unified School District and the PTA organizations cooperate in a "round-up" of the next year's kindergarten class. This is an opportunity for the children and their parents to become acquainted with the PTA, the school personnel, and the program for kindergarten children.

A health inspection by the school physician helps to introduce each child to the health office of the school and its procedure. However, if a child is

under the supervision of a family physician, the parent may substitute a report of a recent physical examination, signed by this doctor, for the school health appraisal.

In order to be eligible for kindergarten, a child must be born on or before Dec. 2, 1953.

Parents with children who will be eligible for kindergarten next year should contact the nearest elementary school for information about enrollment forms, and for an appointment time for the health appraisal.

Pioneer Aircraft Firm Adds To Its Torrance Facilities

Now in its 36th year, the Ryan Aeronautical Co. is one of two pioneer aircraft companies still headed by its founder, T. Claude Ryan. (The other: Douglas Aircraft Co.)

Ryan's modern plant facilities include the newly expanded 275,000 square foot Torrance Division and well over one million square feet of factory floor space in San Diego. Ryan's 7000 employees produced over \$76 million worth of aeronautical and electronic products last year.

Ryan's current backlog is \$117 million in a broadly diversified list of products running the gamut from Firebee jet drone missiles, ramjet and rocket engines, huge jet tanker fuselages, jet engine pods for commercial airliners, and VTOL research aircraft, to electronics systems for navigation and missile guidance.

Firm Diversified

Ryan is also diversified in other ways. Sixty per cent of the present backlog is for military applications — 40 per

cent, commercial. Ryan is both a prime contractor, 30 per cent, and a subcontractor, 70 per cent. Ryan is a research and development facility, with over 1100 in the engineering division, and a production plant, geared to volume production of exacting structures for high speed flight.

Most of Ryan's prime contract work involves the development of new products for the Air Force, Navy and Army, such as the Firebee target drones (produced in Torrance) and the X-13 Vertijet (world's first jet VTOL aircraft), and RANAV automatic navigation systems for Army and Navy aircraft. Ryan's subcontract work is typified by the production of huge aft fuselages for Boeing KC-135 jet tankers and jet power packs and pylons (to be built in Torrance) for the new Douglas DC-8 jetliner.

Missile Leader

Ryan is not only well equipped to meet the challenge of the new missile era, the company has been an experienced producer in this field for many years. Ryan engineering and production teams work in all three areas of missile technology: "frame" (aerodynamics), "brain" (electronics guidance), and "muscle" (propulsion).

Officially designated a "drone missile" by the Air Force, the Ryan Firebee has missile capability in that it can carry a 500-pound payload which could be devoted to a warhead or an electronic "brain" to seek out and destroy an enemy. Ryan engineers designed the Firebee, which is the highest performance "flying bull's-eye" in operation, and designed the electronics system for controlling and guiding it.

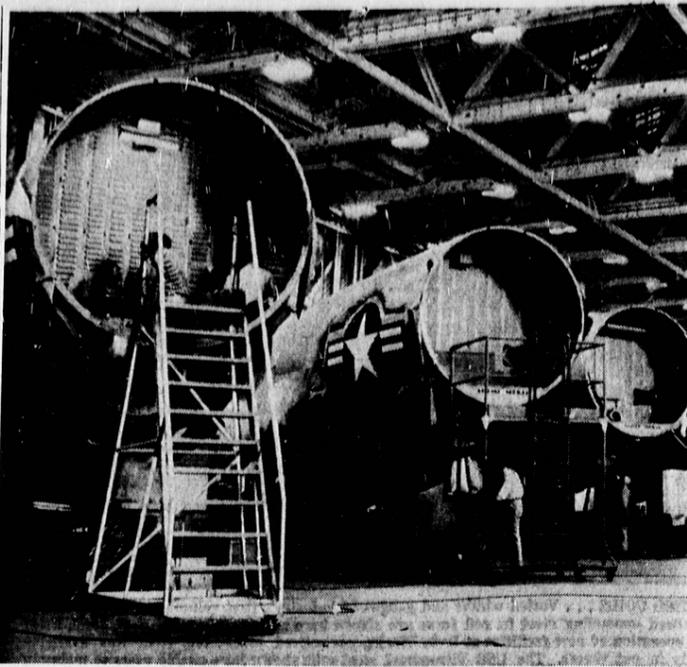
In Rocket Field

For several years, Ryan has been producing the powerful liquid-fuel rocket engines for the Army's Corporal guided missile and the ramjet combustion chambers for the Air Force's Bomarc interceptor missile. In the field of propulsion, Ryan experience goes back to the first commercially built afterburner, in 1946, and thousands of important components for the major jet engines in service today.

For over 20 years, Ryan has specialized in the fabrication of high temperature alloys for aviation applications. Today, Ryan handles 80 alloys in fabrication, of which 30 metals are for high temperature use, running from 1200 to 2200 degrees F.

Leads Industry

After 10 years' concentrated work in the specialized field of continuous-wave Doppler radar, Ryan has achieved industry leadership in applying these principles to the solution of complex navigation and guidance problems. Six months ago, the growing importance of this work was emphasized by the establishment of the Ryan



PRODUCTION LINE . . . The photo shows the Ryan production line of huge aft fuselage sections which the company builds for the Boeing KC-135 jet tanker, used by the Air Force. The Torrance plant produces Ryan Firebee target drones to test Air Force and Navy missiles.

Electronics Division in a new plant separate from the main factory. Here, automatic navigational systems for both jet Navy planes and helicopters and Army aircraft and helicopters are being produced. Under wraps, a guidance system for an important supersonic missile is also being developed.

To meet the fast changing demands of aviation, Ryan is diversified, yet specialized; flexible, yet experienced.

CAMPOREE SCHEDULED FOR SCOUTS

The traditions of early California will be re-lived in spirit when the Harbor District of the Los Angeles Area Council, Boy Scouts of America, holds its annual spring Camporee at Firestone Scout Reservation.

The weekend event is themed "El Campo Camino Real," or the royal road to camp, and will be held on May 3, and 4 with about 1000 boys expected, according to Arthur Basile, district camping chairman.

Among the events at the Camporee will be 13 Scout skill items each having authentic Spanish names. In addition, there will be a gigantic swim meet. Each unit having the opportunity of sending representation for four events.

There will be two camps — one reserved for Explorer campers, and the other for Scout campers. Each camp will have a Campmaster in charge of the camp and they are: Leslie Steigh, Campmaster for the Scout camp and Charles Dresser as campmaster for the Explorer camp.



RYAN VERTIJET . . . The Ryan X-13 Vertijet, the world's first jet VTOL aircraft, was developed for the Air Force. This new weapon is the result of 10 years' research by Ryan engineers.

Shrine Game Plans Made

Although a lot of baseball the state as Northern and Southern California respectively send squads of 25 men each into battle on a midsummer's night.

Net proceeds benefit the Los Angeles unit of the Shriner's Hospital for Crippled Children, a 100 per cent charity, belonging to a chain of 16 other such hospitals throughout the United States, Mexico, Canada and Hawaii.



The Associated Students of EL CAMINO COLLEGE salute THEIR FRIENDS AND NEIGHBORS of THE ALL-AMERICA CITY



MAN LOOKING FOR A LIGHT

Time was, when a fellow needed a light he had to wait around under a thunderstorm, hoping lightning would start a forest fire. It was hard work—many a man returned to his cave with nothing to show for it but a wet leopardskin.

One stormy day a Neanderthal with a head cold stayed in his cave while the others were out fire-watching. He got to fiddling with a couple of pieces of dry wood, and noticed that when he rubbed them together they got warm . . . and warmer . . . and HOT. Something clicked in his cranium, and he began to rub furiously. A loop of smoke began curling up from the

wood, and then a red glow appeared. In a few minutes, he had a cheerful fire going.

They made him Chief, of course. Ever since, men who've thought up shortcuts—better ways and better things—have been leaders. That's why CARBIDE spends so much time and money on research and development . . . to maintain our leadership in the chemicals industry.

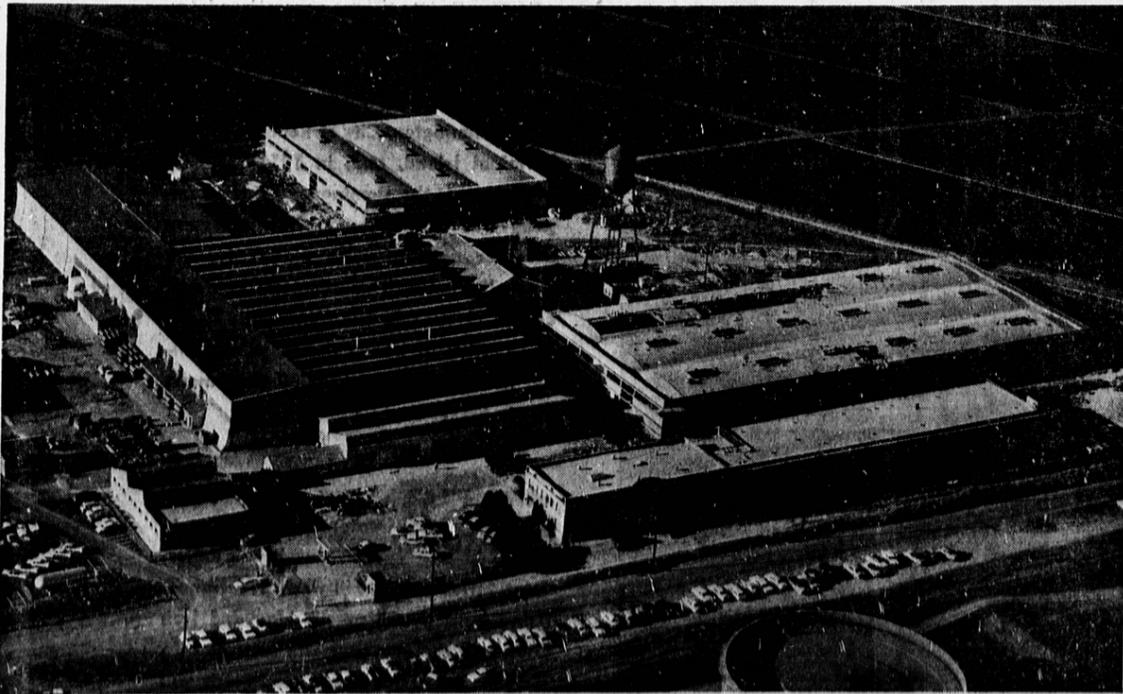
In CARBIDE's labs hundreds of chemists, physicists, engineers, and technicians work to create the products that will make your life easier. Research has brought us a long way from the caveman. Research will take us a lot further.

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RYAN AERONAUTICAL COMPANY • TORRANCE DIVISION

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Ryan Firebee target drones — from this plant — are the jet-fast "bull's-eyes" which test the Air Force and Navy missiles of America's air defense system. Soon, jet engine pods and pylons, for Douglas DC-8 Jetliners, will also be produced here.